

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

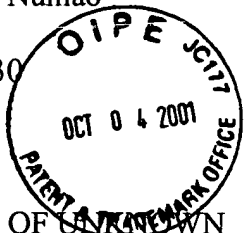
In re Application of:

Naganori Numao

Serial No.: 09/899,030

Filed: July 6, 2001

For: PREDICTION OF UNKNOWN  
BIOLOGICAL FUNCTION OF  
THE ACTIVE SITE IN  
PROTEINS OR/AND  
POLYNUCLEOTIDES, AND ITS  
UTILIZATION



Art Unit: To be assigned

Examiner: To be assigned

Atty Docket: 21776/0061

INFORMATION DISCLOSURE STATEMENT

Commissioner for Patents  
Washington, D.C. 20231

Sir:

Listed on accompanying form PTO-1449 are a number of documents which may be considered relevant to the examination of this application. A copy of each of these documents is provided. It is respectfully requested that the Examiner initial and return a copy of the enclosed PTO-1449, and indicate in the official file wrapper of this patent application that the documents have been considered.

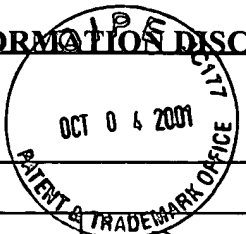
Respectfully submitted,

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Date: 10/04/01

<b>FORM PTO-1449</b>		Atty Docket 21776/0061		Serial No. 09/899,030	
<b>INFORMATION DISCLOSURE CITATION</b>		Applicant: Naganori Numao			
		Filing Date: July 6, 2001		Group Art Unit To be assigned	
<b>U.S. PATENT DOCUMENTS</b>					
Examiner Initial		Document Number	Date	Name	Filing Date
AA					
<b>FOREIGN PATENT DOCUMENTS</b>					
		Document Number	Date	Country	Class Sub-Class Filing Date
AB		EP 0494502	07/1992	Europe	
<b>OTHER (Including Author, Title, Date, Pertinent Pages, etc.)</b>					
AC		Lacey, Jr. et al., "Concepts Related to the Origin of Coded Protein Synthesis", Chemtracts-Biochemistry and Molecular Biology, Vol. 12, 1999, pps. 398-418			
AD		Kunin, "A System Of Two Polymerases - A Model For The Origin Of Life", Origins of Life and Evolution of the Biosphere, Vol. 30, 2000, pps. 459-466			
AE		Bairoch et al., "The SWISS-PROT Protein Sequence Data Bank", Nucleic Acids Research, Vol. 20, 1992, pps. 2019-2022			
AF		Sternberg, "PROMOT: a FORTRAN Program to Scan Protein Sequences Against A Library of Known Motifs", CABIOS, Vol. 7, No. 2, 1991, pps. 257-260			
AG		Doolittle et al., "Computer-Based Characterization of Epidermal Growth Fractor Precursor", Nature, Vol. 307, 1984, pps. 558-560			
AH		Veljković et al., "Is It Possible to Analyze DNA and Protein Sequences by the Methods of Digital Signal Processing?", IEEE, Vol. BME-32, No. 5, 1985 pps. 337-341			
AI		Veljković et al., "A Novel Method of Protein Analysis For Prediction of Biological Function: Application To Tumor Toxins", Cancer Biochem. Biophys., Vol. 9, 1987, pps. 139-148			
AJ		Cosic, "Macromolecular Bioactivity: Is It Resonant Interaction Between Macromolecules?-Theory and Applications", IEEE, Vol. 41, No. 12, 1994, pps. 1101-1114			
AK		Numao et al., "Prediction of the Active Sites of Proteins from Amino Acid Sequences", Biol. Pharm. Bull., Vol. 16, No. 11, 1993, pps. 1160-1163			
AL		Zasloff, "Magainins, a Class of Antimicrobial Peptides From <i>Xenopus</i> Skin: Isolation, Characterization of Two Active Forms, and Partial cDNA Sequence of a Precursor", Proc. Natl. Acad. Sci. USA, Vol. 84, 1987, pps. 5449-5453			
AM		Numao et al., "Biological Activities of 1,1,6-Trisubstituted Indanes: Beyond Magainin 2", Biol. Pharm. Bull., Vol. 22, No. 1, 1999, pps. 73-76			
AN		Wetzel et al., "Mutational Analysis of the C-terminus of Human Interferon- $\gamma$ ", Protein Engineering, Vol. 3, No. 7, 1990, pps. 611-623			
AO		Aguet et al., "Molecular Cloning and Expression of the Human Interferon- $\gamma$ Receptor", Cell, Vol. 55, 1988, pps. 273-280			
AP		Laughon et al., "Primary Structure of the <i>Saccharomyces cerevisiae</i> GAL4 Gene", Molecular and Cellular Biology, Vol. 4, No. 2, 1984, pps. 260-267			
AQ		Johnston, "A Model Fungal Gene Regulatory Mechanism: the GAL Genes of <i>Saccharomyces Cerevisiae</i> ", Microbiological Reviews, Vol. 51, No. 4, 1987, pps.458-476			
AR		Bram et al., "A GAL Family of Upstream Activating Sequences in Yeast: Roles In Both Induction and Repression of Transcription", EMBO Journal, Vol. 5, No. 3, 1986, pps. 603-608			
Examiner		Date Considered			

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP § 600. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant(s).

<b>FORM PTO-1449</b>  <b>INFORMATION DISCLOSURE CITATION</b>				Atty Docket 21776/0061		Serial No. 09/899,030	
				Applicant: Naganori Numao			
				Filing Date July 6, 2001		Group Art Unit To be assigned	
<b>U.S. PATENT DOCUMENTS</b>							
Examiner Initial		Document Number	Date	Name	Class	Sub- Class	Filing Date
	AS						
<b>FOREIGN PATENT DOCUMENTS</b>							
		Document Number	Date	Country	Class	Sub- Class	Trans- lation
	AT						Yes No
<b>OTHER (Including Author, Title, Date, Pertinent Pages, etc.)</b>							
	AU		Weiss et al., "RNA Aptamers Specifically Interact with the Prion Protein PrP", Journal of Virology, Vol. 71, No. 11, 1997, pps. 8790-8797				
	AV		Knight et al., "A Polymorphism That Affects OCT-1 Binding to the <i>TNF</i> Promoter Region is Associated With Severe Malaria", Nature Genetics, Vol. 22, 1999, pps. 145-150				
	AW		Oshima, "The Phosphatase System In <i>Saccharomyces cerevisiae</i> ", Genes Genet. Syst., Vol. 72, 1997, pps. 323-334				
	AX		Holmes et al., "Cloning And Expression Of The Gene For Pro-Urokinase In Escherichia Coli", Bio/Technology, Vol. 3, 1985, pps. 923-929				
	AY		Wells et al., "Cloning, Sequencing, and Secretion of <i>Bacillus amyloliquefaciens</i> Subtilisin in <i>Bacillus Subtilis</i> ", Nucleic Acids Research, Vol. 11, No. 22, 1983, pps. 7911-7925				
	AZ		Prusiner, "Prions", Proc. Natl. Acad. Sci. USA, Vol. 95, 1998, pps. 13363-13383				
	BA		Westaway et al., "Prions", Proc. Natl. Acad. Sci. USA, Vol. 95, 1998, pps. 11030-11031				
	BB		Forloni et al., "Neurotoxicity of a Prion Protein Fragment", Nature, Vol. 362, 1993, pps. 543-546				
	BC		Kunz et al., "Neurotoxicity of Prion Peptide 106-126 Not Confirmed", FEBS Letters 458, 1999, pps. 65-68				
	BD		Brown et al., "Antioxidant Activity Related to Copper Binding of Native Prion Protein", Journal of Neurochemistry, Vol. 76, 2001, pps. 69-76				
	BE		Ponte et al., "A New A4 Amyloid mRNA Contains A Domain Homologous to Serine Proteinase Inhibitors", Nature, Vol. 331, 1988, pps. 525-527				
	BF		Kitaguchi et al., "Novel Precursor of Alzheimer's Disease Amyloid Protein Shows Protease Inhibitory Activity", Nature, Vol. 331, 1988, pps. 530-532				
	BG		Cunningham et al., "High-Resolution Epitope Mapping of hGH-Receptor Interactions by Alanine-Scanning Mutagenesis", Science, Vol. 244, 1989, pps. 1081-1085				
	BH		Volchkov et al., "GP mRNA of Ebola Virus Is Edited by the Ebola Virus Polymerase and by T7 and Vaccinia Virus Polymerases", Virology, Vol. 214, 1995, pps. 421-430				
	BI						
	BJ						
Examiner				Date Considered			

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